

Appendix: Peripheral Controller HEX codes and cable connection diagrams

This appendix lists Peripheral Controller card HEX messages displayed during self-test on the two-character display located on the Peripheral Controller faceplate. It also illustrates the connection diagrams of the Fiber Remote Multi-IPE Interface units at the local and the remote sites.

Peripheral Controller hexadecimal codes

Table 21 lists the Peripheral Controller hexadecimal codes displayed on the faceplate display.

Table 21
Peripheral Controller self-test HEX codes (Part 1 of 2)

HEX code	Test description
01	MPU confidence test
02	MPU internal RAM
03	Boot EPROM test
04	RAM test
05	MPU addressing mode test
06	ID EEPROM test
07	FLASH EPROM test (the programmable part)
08	Watchdog timer test
09	MPU timers test
0A	DUART port A
0B	DUART port B
0C	A31 #1 external buffer
0D	A31 #1 internal context memory (phase A)
0E	A31 #1 internal context memory (phase B)
0F	A31 #1 internal TXVM memory
10	A31 #1 configuration memory
11	A31 #1 external FIFO
12	A31 #2 external buffer
13	A31 #2 internal context memory (phase A)

Table 21
Peripheral Controller self-test HEX codes (Part 2 of 2)

HEX code	Test description
14	A31 #2 internal context memory (phase B)
15	A31 #2 internal TXVM memory
16	A31 #2 configuration memory
17	A31 #2 external FIFO
18	R72 N-P switching control memory
19	R72 320x8 NIVD buffer
1A	R72 N-P Quiet code register
1B	R72 P-N switching control memory
1C	R72 640-8 XIVD buffer
1D	R72 640-8 XIVD loopback buffer test
1E	R72 P-N Quiet code register
1F	R71 register test
20	R71 continuity test, peripheral side
21	R71 continuity test, network side
22	R71 packet transmission test
23	Interrupt test
24	R71 continuity test, peripheral side DS30X

Fiber Remote Multi-IPE Interface units connection diagrams

The following figures illustrate the connection of the Meridian 1 system to the Fiber Remote Multi-IPE Interface units and the fiber-optic link at the local and the remote sites.

The following three figures represent examples of connections at the local and correspondingly at the remote site. These connections represent the following:

- **Figure 15** shows three Superloop Network cards connected to:
 - A co-located IPE Module indicated by the Controller Card, the backplane, and the I/O panel.
 - Three SUPERLOOP connections to the Fiber Remote Multi-IPE Interface unit.
 - Connections to the SDI Paddleboard and other SDI cards as an alternative.
 - The system monitor, the fiber-optic link, and the MMI terminal connections.
- **Figure 16** shows multiple Fiber Remote Multi-IPE Interface unit connections:
 - Connections to the SDI Paddleboard and other SDI cards as an alternative.
 - System monitor connection.
 - MMI terminal connection.
- **Figure 17** shows the Remote IPE site with two Remote IPE Modules:
 - Each Remote IPE Module is designated with a Controller Card, the backplane connectors, and the I/O panel connectors.
 - Shows three SUPERLOOPS, which are extended from the local site, refer to Figure 15, where SUPERLOOP #1 supports one entire IPE Module, SUPERLOOP #2 and SUPERLOOP #3 support the second IPE Module. SUPERLOOP #4 is not equipped in this example.
 - Shows the MMI terminal connection, the system monitor connection, and the fiber-optic link connection.

Figure 15
Local site single Fiber Remote Multi-IPE Interface unit cable connection diagram

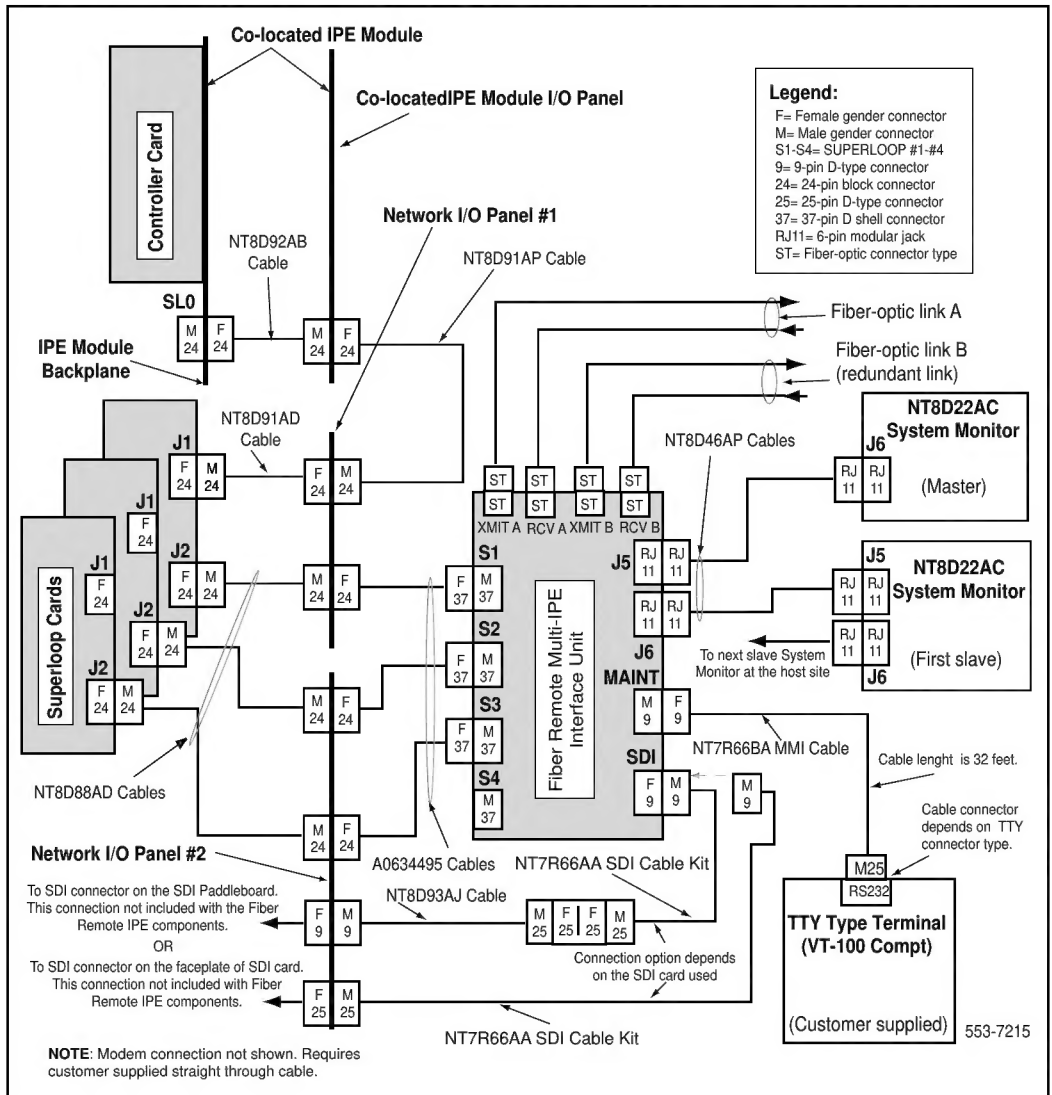


Figure 16
Local site multiple Fiber Remote Multi-IPE Interface units cable connection diagram

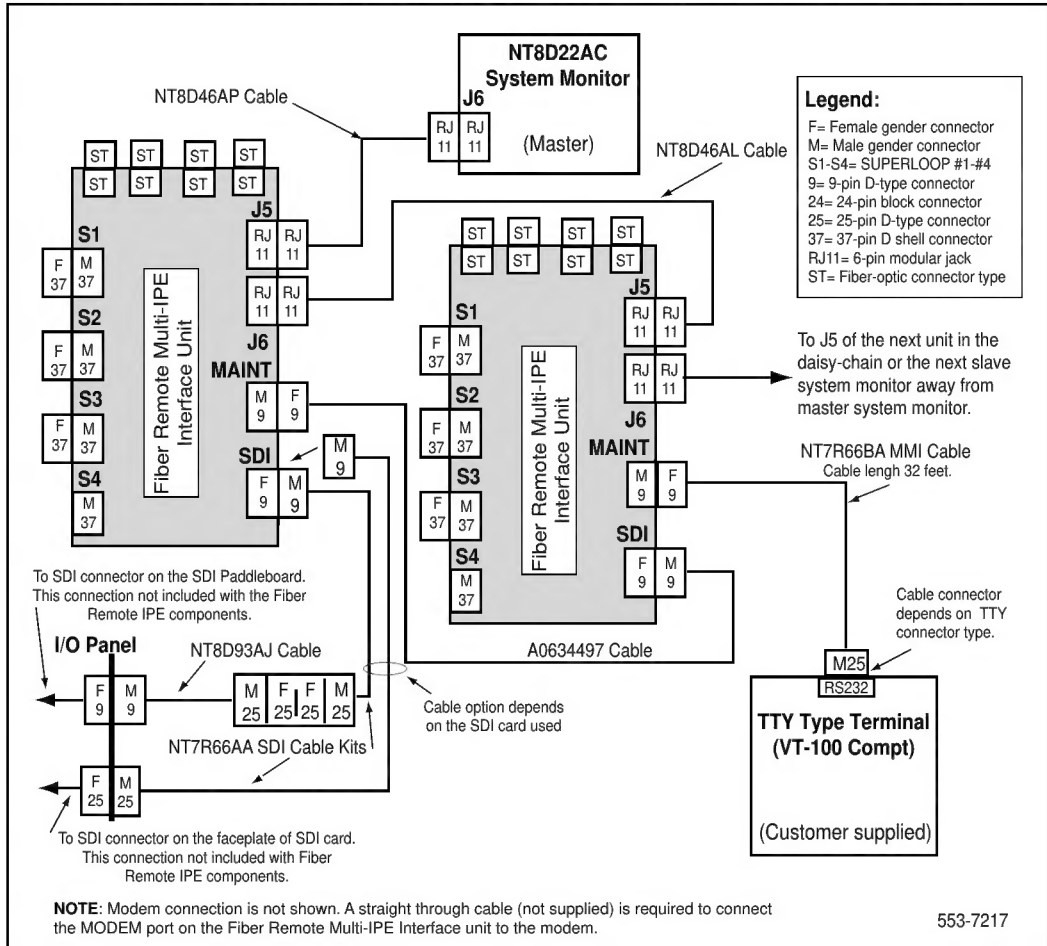


Figure 17
Remote site single Fiber Remote Multi-IPE Interface unit cable connection diagram

